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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/849,053	05/20/2004	Masahiro Ogawa	60188-865	6747
. 7	590 10/03/2005		EXAM	INER
Jack Q. Lever, Jr.			MONDT, JOHANNES P	
McDERMOTT, WILL & EMERY 600 Thirteenth Street, N.W. Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			2826	_
			DATE MAILED: 10/03/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			M
	Application No.	Applicant(s)	710
	10/849,053	OGAWA, MASAHIRO	
Office Action Summary	Examiner	Art Unit	
	Johannes P. Mondt	2826	
The MAILING DATE of this communication	appears on the cover sheet wit	h the correspondence address	
Period for Reply			_
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ATION. ply be timely filed CHS from the mailing date of this communication NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 10	6 September 2005.		
	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal matte	rs, prosecution as to the merits	is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-13 is/are pending in the applicat	ion.		
4a) Of the above claim(s) 3-13 is/are withdra			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to t	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the con	rection is required if the drawing(s) is objected to. See 37 CFR 1.121((d).
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	ign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
Certified copies of the priority docume	ents have been received in Ap	plication No	
3.☐ Copies of the certified copies of the p	•	eceived in this National Stage	
application from the International Bur			
* See the attached detailed Office action for a l	list of the certified copies not re	eceived.	
Attachment(s)			
) Notice of References Cited (PTO-892)	4) 🔲 Interview Su		
$\mathbb{P}(x)$ Notice of Draftsperson's Patent Drawing Review (PTO-948) $\mathbb{P}(x)$ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	_	Mail Date ormal Patent Application (PTO-152)	
Paper No(s)/Mail Date <u>5/20/04</u> .	6) Other:		

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of the Group I invention (claims 1-2) in the reply filed on 9/16/05 is acknowledged.

Information Disclosure Statement

The examiner has considered the Information Disclosure Statement (IDS) filed 5/20/04 to the extent possible based on the form of the submission by Applicant: only the abstract has been considered. A signed copy of Form PTO-1449 is herewith enclosed.

In view of the apparent pertinence of Sakai's invention (see below) examiner kindly requests that IDS item JP 2001345478 A be made available by IDS in full, certified English translation.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakai (6,681,270 B2).

Sakai teaches a semiconductor device (title, abstract, Figures 1-3 and cols. 3-5) comprising an active layer 16 (col. 3, I. 28-61) (N.B.: 16 is the active layer because when a voltage is applied to the light emitting element having a three —layered structure12/16/18 light is emitted while said light inherently is emitted from recombination of electrons and holes accelerated in opposite directions by menas of said voltage, which recombination mainly takes place in the undoped region between n-doped and p-doped layers 12 and 18, i.e., in the light emitting layer 16) constituted by a Group III nitride semiconductor layer 16 (loc.cit.) containing at least three different elements including at least aluminum (namely: AlGaN) (col. 3, I. 41), wherein the active layer exhibits a fluctuation in the bandgap based on a variation in the distribution of the aluminum content in the active layer (col. 3, I. 41-60 and col. 4, I. 1-7).

On claim 2: The device of claim 22 would necessarily have to be formed in order to function. Claim 2 fails to further limit the device of claim 1 other than at most simply form each of its components.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sakai (JP 2001-345478 A, made of record by Applicant in IDS filed 5/20/04.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P. Mondt whose telephone number is 571-272-1919. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JPM September 22, 2005

Patent Examiner:

Johannes Mondt (Art Unit: 2826)